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FIG. 1A

GAATTCTCTGGACTGAGGCTCCAGTTCTGGCCTTGGGG
 TTCAAGATCACTGGACCAGGCCGTGATCTCTATGCCCGAGTCTAACCCCTCAACTGTC
 ACCCCAAGGCACTTGGGACGTCCTGGACAGACCGAGTCCCAGGAAGCCCCAGCACTGCC

 GCTGCCACACTGCCCTGAGCCCAAATGGGGAGTGAGAGGCCA TAG CTG TCT GGC

S1	S5	S10	S15
Met Gly Leu Ser Thr Val Pro Asp Leu	Leu Leu Leu Pro Leu Val Leu	Leu	Leu
ATG GGC CTC TCC ACC GTG CCT GAC	CTG CTG CTC CTG CCA CTG GTG CTC		
216	225	234	243
			252

S20	S25	S29	1
Leu Glu Leu Leu Val Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu	CTG GAG CTG TTG GTG GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG		
261	270	279	288
			297

5	10	15	
Val Pro His Leu Gly Asp Arg Glu Lys Arg Asp Ser Val Cys Pro	GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA GAT AGT GTG TGT CCC		
306	315	324	333
			342

20	25	30	
Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr	CAA GGA AAA TAT ATC CAC CCT CAA AAT TCG ATT TGC TGT ACC		
351	360	369	378
			387

35	40	45	
Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro	AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG		
396	405	414	423
			432

50	55	60	
Gly Gln Asp Thr Asp Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr	GGG CAG GAT ACG GAC TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC		
441	450	459	468
			477

65	70	75	
Ala Ser Glu Asn His Leu Arg His Cys Leu Ser Cys Ser Lys Cys	GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC AGC TGC TCC AAA TGC		
486	495	504	513
			522

80	85	90	
Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp	CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC		
531	540	549	558
			567

FIG. 1B

95	100	105
Arg Asp Thr Val Cys Gly Cys Arg	Lys Asn Gln Tyr Arg His Tyr	
CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT		
576	585	594
		603
		612
110	115	120
Trp Ser Glu Asn Leu Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu		
TGG AGT GAA AAC CTT TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC		
621	630	639
		648
		657
125	130	135
Asn Gly Thr Val His Leu Ser Cys Gln Glu Lys Gln Asn Thr Val		
AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG AAA CAG AAC ACC GTG		
666	675	684
		693
		702
140	145	150
Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val		
TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC		
711	720	729
		738
		747
155	160	165
Ser Cys Ser Asn Cys Lys Lys Ser Leu Glu Cys Thr Lys Leu Cys		
TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC		
756	765	774
		783
		792
170	175	180
Leu Pro Gln Ile Glu Asn Val Lys Gly Thr Glu Asp Ser Gly Thr		
CTA CCC CAG ATT GAG AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC		
801	810	819
		828
		837
185	190	195
Thr Val Leu Leu Pro Leu Val Ile Phe Phe Gly Leu Cys Leu Leu		
ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT GGT CTT TGC CTT TTA		
846	855	864
		873
		882
200	205	210
Ser Leu Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys		
TCC CTC CTC TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG		
891	900	909
		918
		927
215	220	225
Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys		
TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA CCT GAA AAA		
936	945	954
		963
		972
230	235	240
Glu Gly Glu Leu Glu Gly Thr Thr Lys Pro Leu Ala Pro Asn		
GAG GGG GAG CTT GAA GGA ACT ACT ACT AAG CCC CTG GCC CCA AAC		
981	990	999
		1008
		1017

FIG. 1C

245	250	255
Pro Ser Phe Ser Pro Thr Pro Gly	Phe Thr Pro Thr Leu Gly Phe	
CCA AGC TTC AGT CCC ACT CCA GGC	TTC ACC CCC ACC CTG GGC TTC	
1026	1035	1053
	1044	1062
260	265	270
Ser Pro Val Pro Ser Ser Thr Phe	Thr Ser Ser Ser Thr Tyr Thr	
AGT CCC GTG CCC AGT TCC ACC TTC	ACC ACC TCC AGC TCC ACC TAT ACC	
1071	1080	1098
	1089	1107
275	280	285
Pro Gly Asp Cys Pro Asn Phe Ala	Ala Pro Arg Arg Glu Val Ala	
CCC GGT GAC TGT CCC AAC TTT GCG	GCT CCC CGC AGA GAG GTG GCA	
1116	1125	1143
	1134	1152
290	295	300
Pro Pro Tyr Gln Gly Ala Asp Pro	Ile Leu Ala Thr Ala Leu Ala	
CCA CCC TAT CAG GGG GCT GAC CCC	ATC CTT GCG ACA GCC CTC GCC	
1161	1170	1188
	1179	1197
305	310	315
Ser Asp Pro Ile Pro Asn Pro Leu	Gln Lys Trp Glu Asp Ser Ala	
TCC GAC CCC ATC CCC AAC CCC CTT	CAG AAG TGG GAG GAC AGC GCC	
1206	1215	1233
	1224	1242
320	325	330
His Lys Pro Gln Ser Leu Asp Thr	Asp Asp Pro Ala Thr Leu Tyr	
CAC AAG CCA CAG AGC CTA GAC ACT	GAT GAC CCC GCG ACG CTG TAC	
1251	1260	1278
	1269	1287
335	340	
Ala Val Val Glu Asn Val Pro Pro	Leu Arg Trp	
GCC GTG GTG GAG AAC GTG CCC CCG	TTG CGC TGG AA <u>GGAATTC</u>	
1296	1305	1323
	1314	1332

FIG. 2

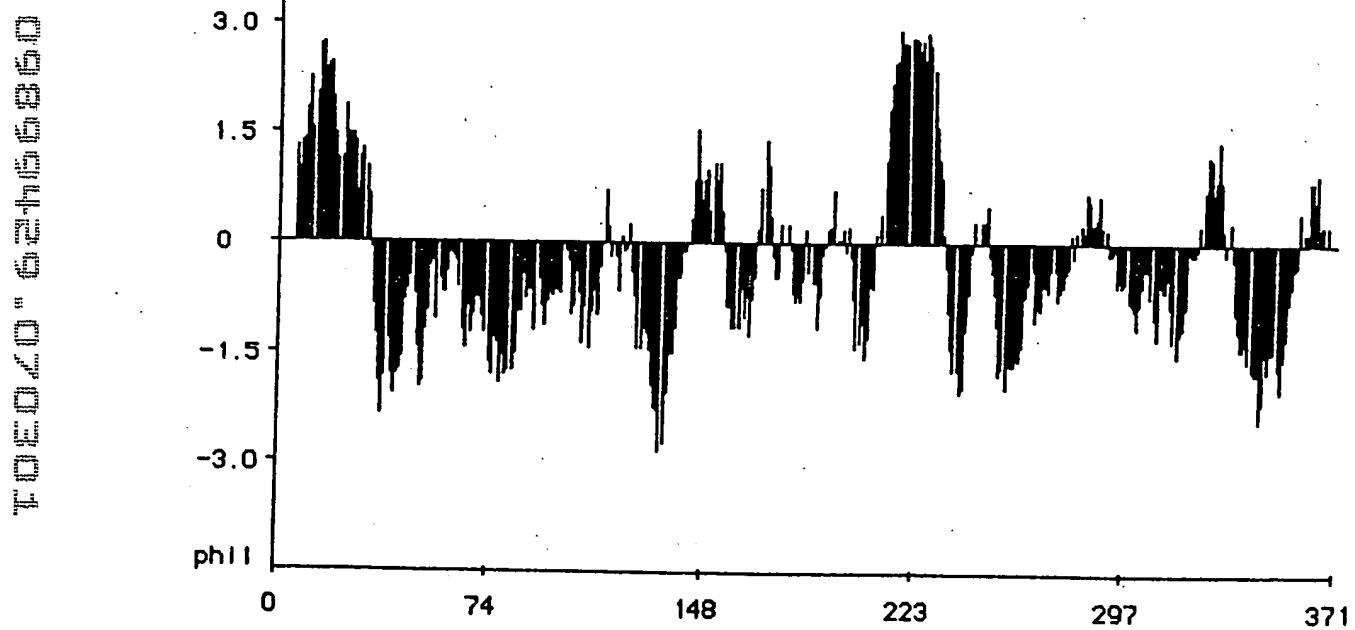


FIG. 3A

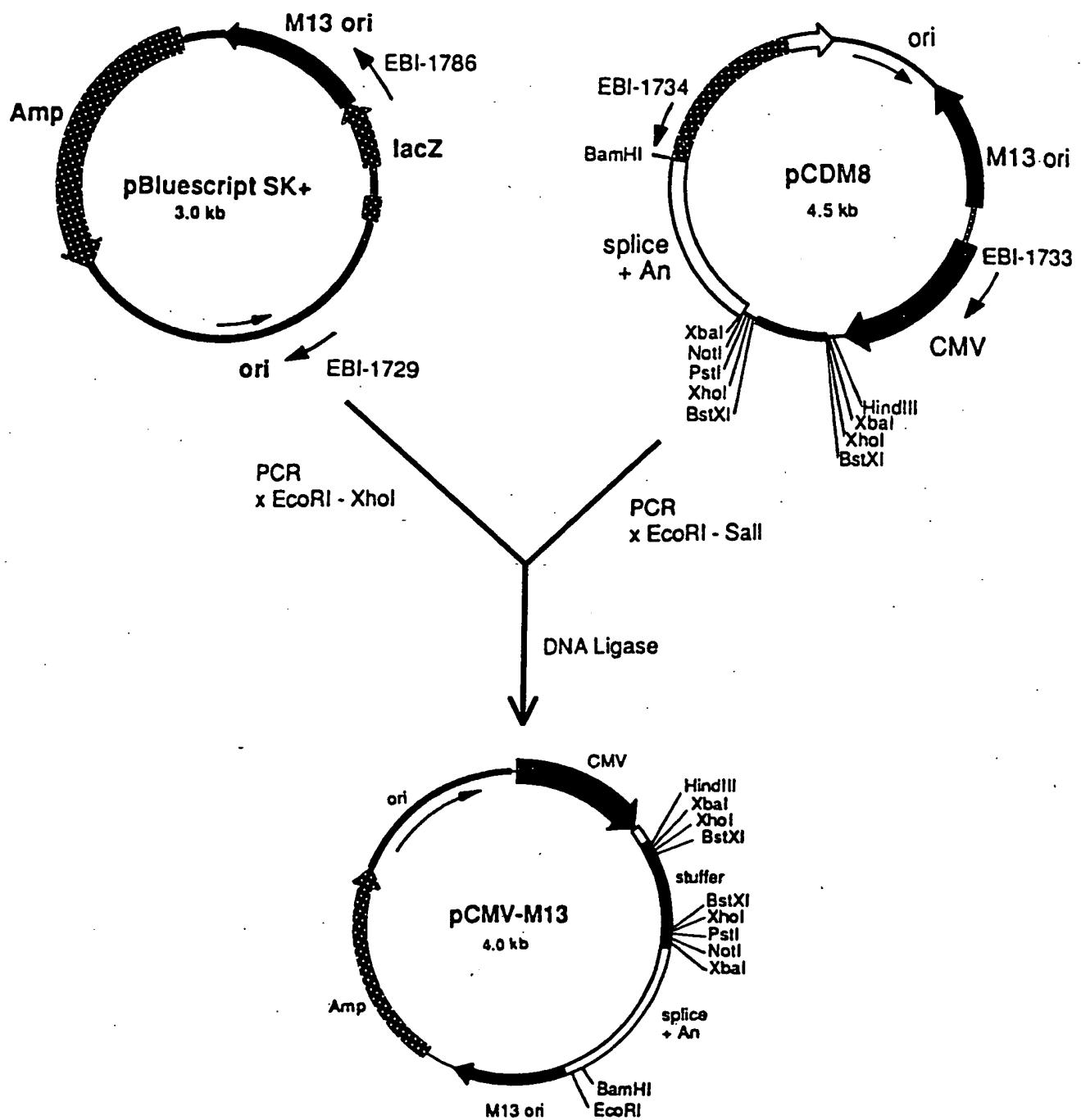


FIG. 3B

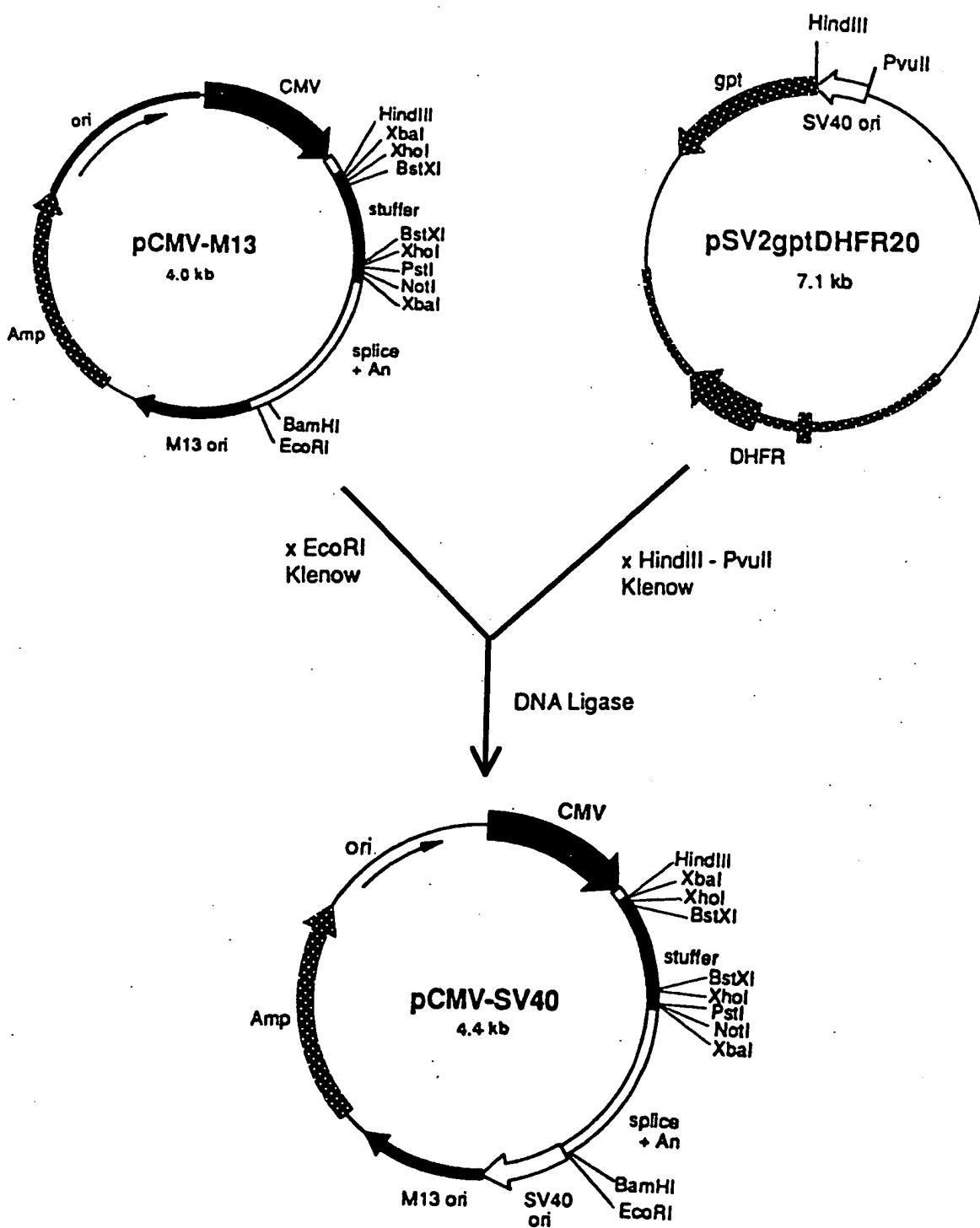


FIG. 4A

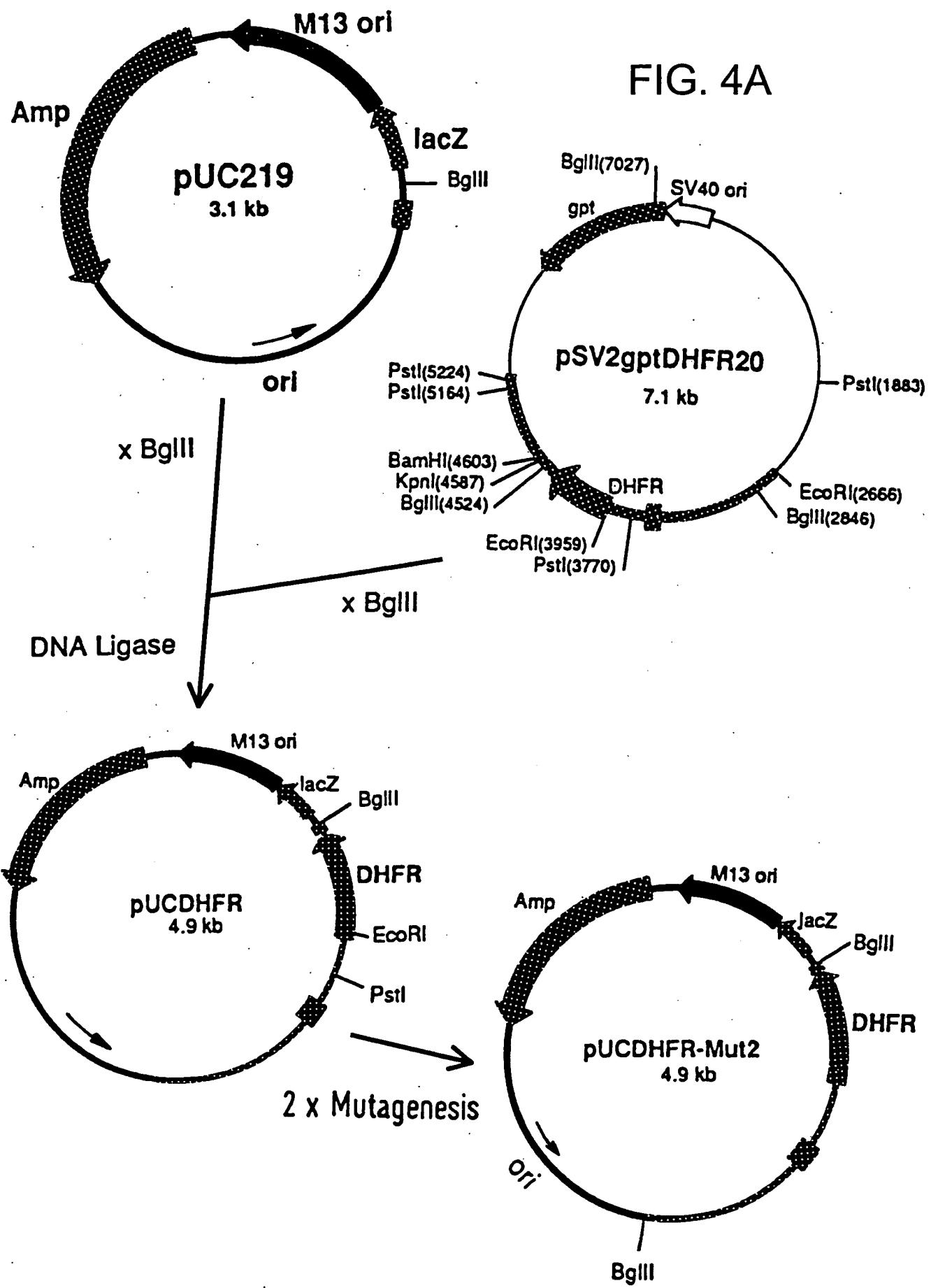
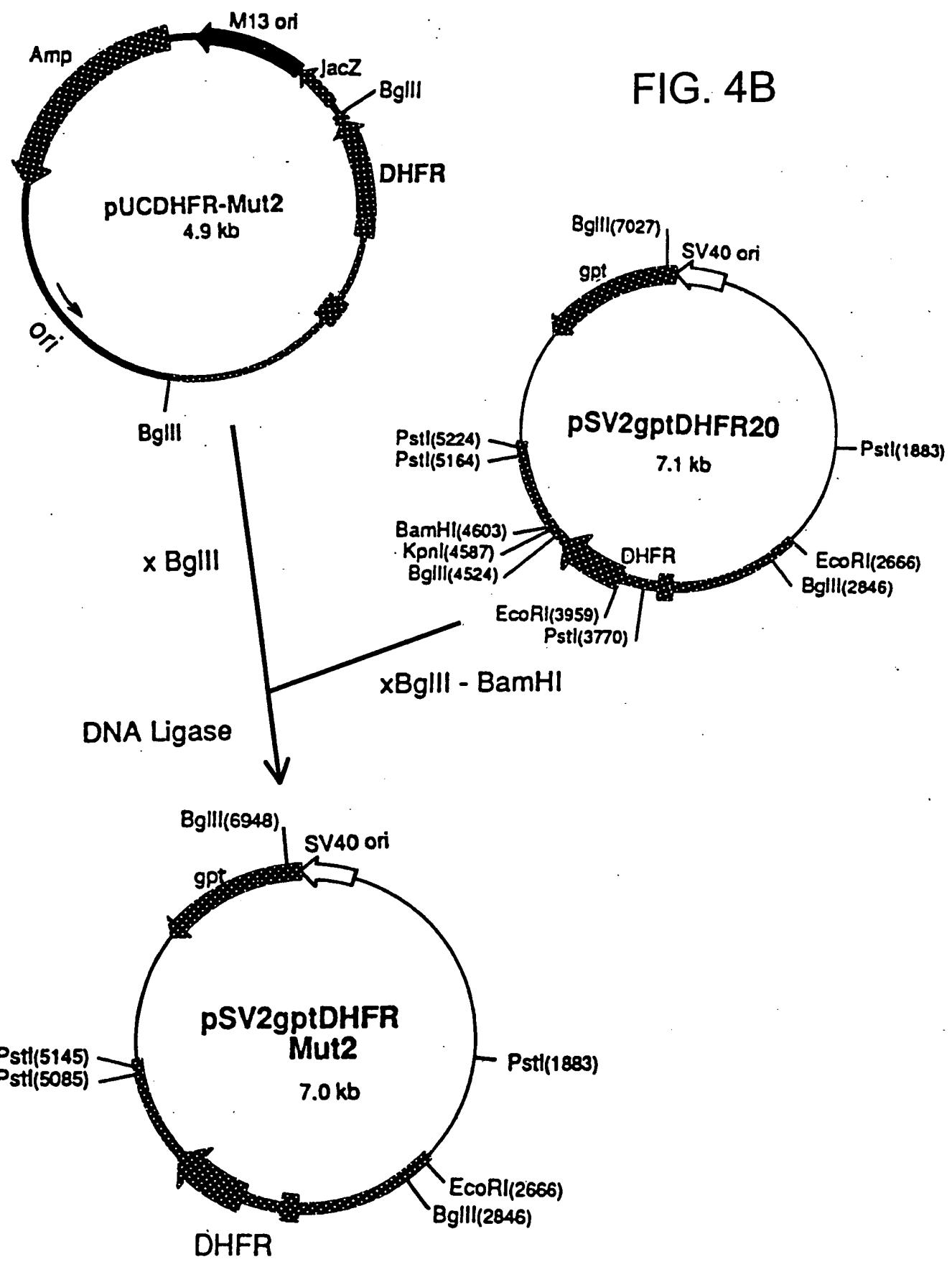


FIG. 4B



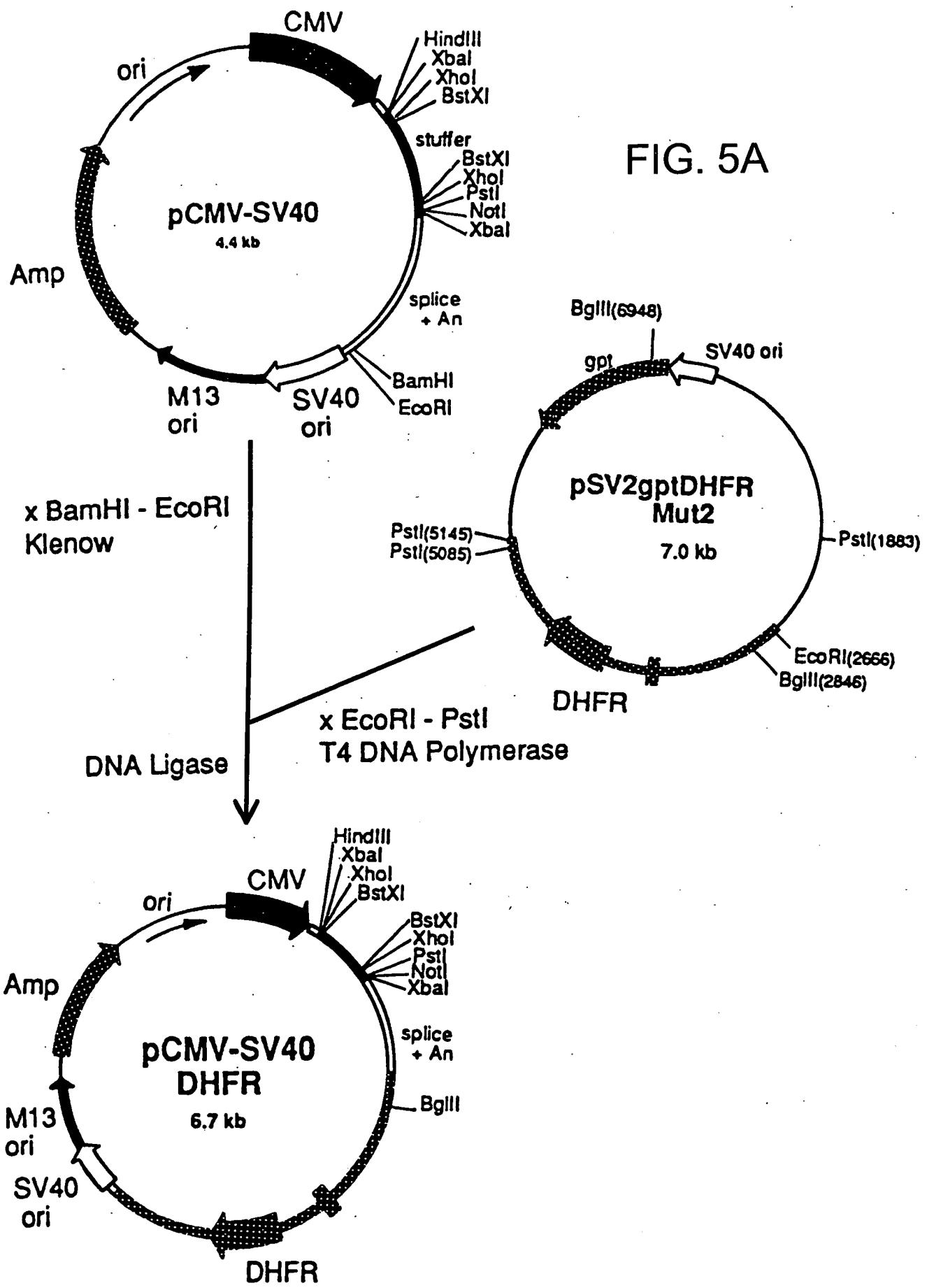


FIG. 5B

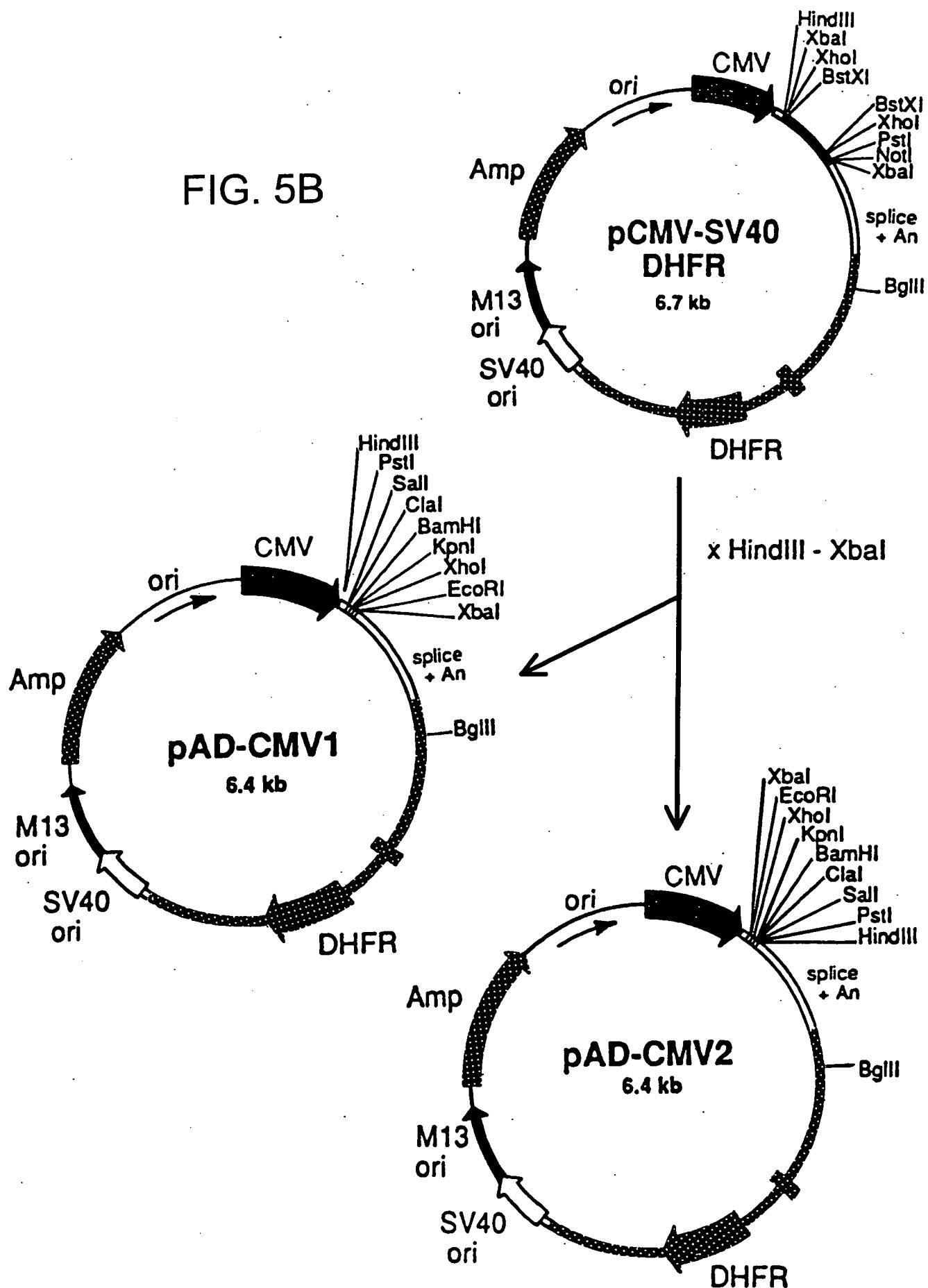


FIG. 6A

pAD-CMV1 : 6414 bp

TCGACATTGA TTATTGACTA GTTATTAATA GTAATCAATT ACGGGGTCA TAGTTCATAG 60
CCCATATATG GAGTTCCGCG TTACATAACT TACGGTAAAT GGCCCGCCTG GCTGACCGCC 120
CAACGACCCC CGCCCATTGA CGTCAATAAT GACGTATGTT CCCATAGTAA CGCCAATAGG 180
GACTTTCCAT TGACGTCAAT GGGTGGAGTA TTTACGGTAA ACTGCCCACT TGGCAGTACA 240
TCAAGTGTAT CATATGCCAA GTACGCCCA TATTGACGTC AATGACGGTA AATGGCCCGC 300
CTGGCATTAT GCCCAGTACA TGACCTTATG GGACTTCCT ACTTGGCAGT ACATCTACGT 360
ATTAGTCATC GCTATTACCA TGGTGATGCG GTTTGGCAG TACATCAATG GCGTGGATA 420
GCGGTTGAC TCACGGGAT TTCCAAGTCT CCACCCCATT GACGTCAATG GGAGTTGTT 480
TTGGCACCAA AATCAACGGG ACTTTCCAAA ATGTCGTAAC AACTCCGCC CATTGACGCA 540
AATGGCGGT AGGCGTGTAC GGTGGGAGGT CTATATAAGC AGAGCTCTCT GGCTAACTAG 600
AGAACCCACT GCTTAACTGG CTTATCGAAA TTAATACGAC TCACTATAGG GAGACCCAAG 660
CTTCTGCAGG TCGACATCGA TGGATCCGGT ACCTCGAGCG CGAATTCTCT AGAGGATCTT 720
TGTGAAGGAA CCTTACTTCT GTGGTGTGAC ATAATTGGAC AAACTACCTA CAGAGATTAA 780
AAGCTCTAAG GTAAATATAA AATTTTAAG TGTATAATGT GTTAAACTAC TGATTCTAAT 840
TGTGGTGTGTA TTTAGATTC CAACCTATGG AACTGATGAA TGGGAGCAGT GGTGGAATGC 900
CTTTAATGAG GAAAACCTGT TTTGCTCAGA AGAAATGCCA TCTAGTGATG ATGAGGCTAC 960
TGCTGACTCT CAACATTCTA CTCCTCCAAA AAAGAAGAGA AAGGTAGAAG ACCCCAAAGGA 1020
CTTCCCTTCA GAATTGCTAA GTTTTTGAG TCATGCTGTG TTTAGTAATA GAACTCTTGC 1080
TTGCTTGCT ATTTACACCA CAAAGGAAAA AGCTGCACTG CTATACAAGA AAATTATGGA 1140
AAAATATTG ATGTATAGTG CCTTGACTAG AGATCATAAT CAGCCATACC ACATTGTAG 1200
AGGTTTACT TGCTTTAAA AACCTCCCAC ACCTCCCCCT GAACCTGAAA CATAAAATGA 1260
ATGCAATTGT TGTGTTAAC TTGTTTATTG CAGCTTATAA TGGTTACAAA TAAAGCAATA 1320
GCATCACAAA TTTCACAAAT AAAGCATTTC TTTCACTGCA TTCTAGTTGT GGTTTGTCCA 1380
AACTCATCAA TGTATCTTAT CATGCTGGA TCAATTCTGA GAAACTAGCC TTAAAGACAG 1440

FIG. 6B

ACAGCTTGT TCTAGTCAGC CAGGCAAGCA TATGTAATAA AAGTTCTCA GGGAACTGAG 1500
GTTAAAAGAT GTATCCTGGA CCTGCCAGAC CTGGCCATTAC ACGTAAACAG AAGATTCCGC 1560
CTCAAGTTCC GGTAAACAAC AGGAGGCAAC GAGATCTCAA ATCTATTACT TCTAATCGGG 1620
TAATTAAAAC CTTCAACTA AAACACGGAC CCACGGATGT CACCCACTTT TCCTTCCCCG 1680
GCTCCGCCCT TCTCAGTACT CCCCACCATT AGGCTCGCTA CTCCACCTCC ACTTCCGGC 1740
GCGACACCCA CGTGCCCTCT CCCACCCGAC GCTAACCCCG CCCCTGCCCG TCTGACCCCG 1800
CCCACCAACCT GGCCCCGCC CGTTGAGGAC AGAAGAAACC CCGGGCAGCC GCAGCCAAGG 1860
CGGACGGGTA GACGCTGGGG GCGCTGAGGA GTCGTCCTCT ACCTTCTCTG CTGGCTCGGT 1920
GGGGGACGCG GTGGATCTCA GGCTTCCGGA AGACTGGAAG AACCGGCTCA GAACCGCTTG 1980
TCTCCGCGGG GCTTGGGCGG CGGAAGAAATG GCCGCTAGAC GCGGACTTGG TGCGAGGCAT 2040
CGCAGGATGC AGAAGAGCAA GCCCGCCGGG AGCGCGCGGC TGTACTACCC CGCGCCTGGA 2100
GCGGCCACGC CGGACTGGGC GGGGCCGGCC TGGTGGAGGC GGAGTCTGAC CTCGTGGAGG 2160
CGGGGCCTCT GATGTTAAA TAGGATGCTA GGCTTGTGA GGCGTGGCCT CCGATTACACA 2220
AGTGGGAAGC AGCGCCGGGC GACTGCAATT TCGCGCCAAA CTTGGGGAA GCACAGCGTA 2280
CAGGCTGCCT AGGTGATCGC TGCTGCTGTC ATGGTTCGAC CGCTGAAC TG CATCGTCGCC 2340
GTGTCCCAGA ATATGGGCAT CGGCAAGAAC GGAGACCTTC CCTGGCCAAT GCTCAGGTAC 2400
TGGCTGGATT GGGTTAGGGA AACCGAGGCG GTTCGCTGAA TCGGGTCGAG CACTTGGCGG 2460
AGACGCGCGG GCCAACTACT TAGGGACAGT CATGAGGGGT AGGCCCGCCG GCTGCTGCC 2520
TTGCCCATGC CCGCGGTGAT CCCCATGCTG TGCCAGCCTT TGCCCAGAGG CGCTCTAGCT 2580
GGGAGCAAAG TCCGGTCACT GGGCAGCACC ACCCCCCGGA CTTGCATGGG TAGCCGCTGA 2640
GATGGAGCCT GAGCACACGT GACAGGGTCC CTGTTAACGC AGTGTTCCTC TAACTTCAG 2700
GAACGAGTTC AAGTACTTCC AAAGAATGAC CACCACCTCC TCAGTGGAAAG GTAAACAGAA 2760
CCTGGTGATT ATGGGCCGGGA AAACCTGGTT CTCCATTCCCT GAGAAGAAC GACCTTAAA 2820
GGACAGAATT AATATAGTTC TCAGTAGAGA GCTCAAGGAA CCACCACAAG GAGCTCATT 2880
TCTTGCCAAA AGTCTGGACC ATGCCTTAAA ACTTATTGAA CAACCAGAGT TAGCAGATAA 2940
AGTGGACATG GTTGGATAG TTGGAGGCAG TTCCGTTAC AAGGAAGCCA TGAATCAGCC 3000

FIG. 6C

0909475-020101
AGGCCATCTC AGACTCTTG TGACAAGGAT CATGCAGGAA TTTGAAAGTG ACACGTTCTT 3060
CCCAGAAATT GATTTGGAGA AATATAAACT TCTCCCAGAG TACCCAGGGG TCCTTTCTGA 3120
AGTCCAGGAG GAAAAAGGCA TCAAGTATAA ATTTGAAGTC TATGAGAAGA AAGGCTAAC 3180
GAAAGATACT TGCTGATTGA CTTCAAGTTC TACTGCTTC CTCCTAAAAT TATGCATTT 3240
TACAAGACCA TGGGACTTGT GTTGGCTTA GATCCTGTGC ATCCTGGCA ACTGTTGTAC 3300
TCTAAGCCAC TCCCCAAAGT CATGCCAG CCCCTGTATA ATTCTAAACA ATTAGAATTA 3360
TTTCATTT CATTAGTCTA ACCAGGTTAT ATTAAATATA CTTTAAGAAA CACCATTGC 3420
CATAAAGTTC TCAATGCCCC TCCCAGTCAG CCTCAAGTGG CTCCCCAGCA GATGCATAGG 3480
GTAGTGTGTG TACAAGAGAC CCCAAAGACA TAGAGCCCT GAGAGCATGA GCTGATATGG 3540
GGGCTCATAG AGATAGGAGC TAGATGAATA AGTACAAAGG GCAGAAATGG GTTTAACCA 3600
GCAGAGCTAG AACTCAGACT TTAAAGAAAA TTAGATCAA GTAGAGACTG AATTATTCTG 3660
CACATCAGAC TCTGAGCAGA GTTCTGTTCA CTCAGACAGA AAATGGTAA ATTGAGAGCT 3720
GGCTCCATTG TGCTCCTTAG AGATGGGAGC AGGTGGAGGA TTATATAAGG TCTGGAACAT 3780
TTAACTTCTC CGTTTCTCAT CTTCAAGTGG ATACTACAAT TCTGTGGAAT 3840
GTGTGTCACT TAGGGTGTGG AAAGTCCCCA GGCTCCCCAG CAGGCAGAAG TATGCAAAGC 3900
ATGCATCTCA ATTAGTCAGC AACCAAGGTGT GGAAAGTCCC CAGGCTCCCC AGCAGGCAGA 3960
AGTATGCAA GCATGCATCT CAATTAGTCA GCAACCATAG TCCCGCCCT AACTCCGCC 4020
ATCCCGCCCC TAACTCCGCC CAGTTCCGCC CATTCTCCGC CCCATGGCTG ACTAATTTT 4080
TTTATTTATG CAGAGGCCGA GGCGCCTCTG AGCTATTCCA GAAGTAGTGA GGAGGCTTT 4140
TTGGAGGCCT AGGCTTTGC AAAAAAGCTA ATTCAAGCCTG AATGGCGAAT GGGACGCGCC 4200
CTGTAGCGGC GCATTAAGCG CGGCAGGTGT GGTGGTTACG CGCAGCGTGA CCGCTACACT 4260
TGCCAGCGCC CTAGCGCCCG CTCCCTTCGC TTTCTCCCT TCCTTCTCG CCACGTTCGC 4320
CGGCTTCCC CGTCAAGCTC TAAATCGGGG GCTCCCTTA GGGTTCCGAT TTAGTGCTT 4380
ACGGCACCTC GACCCAAAA ACTTGATTAG GGTGATGGTT CACGTAGTGG GCCATCGCC 4440
TGATAGACGG TTTTCGCC TTTGACGTTG GAGTCCACGT TCTTTAATAG TGGACTCTG 4500
TTCCAAACTG GAACAACACT CAACCCCTATC TCGGTCTATT CTTTGATTT ATAAGGGATT 4560

FIG. 6D

TTGCCGATTT CGGCCTATTG GTAAAAAAAT GAGCTGATTT AACAAAAATT TAACGCGAAT	4620
TTTAACAAAA TATTAACGTT TACAATTCA GGTGGCACTT TTCGGGGAAA TGTGCGCGGA	4680
ACCCCTATTT GTTTATTTT CTAAAATACAT TCAAATATGT ATCCGCTCAT GAGACAATAA	4740
CCCTGATAAA TGCTTCATA ATAATTGAAAA AGGAAGAGTA TGAGTATTCA ACATTTCCGT	4800
GTCGCCCTTA TTCCCTTTT TGCAGCATT TGCCCTCCTG TTTTGCTCA CCCAGAAACG	4860
CTGGTGAAG TAAAAGATGC TGAAGATCAG TTGGGTGCAC GAGTGGGTTA CATCGAACTG	4920
GATCTCAACA GCGGTAAGAT CCTTGAGAGT TTTGCCCG AAGAACGTT TCCAATGATG	4980
AGCACTTTA AAGTTCTGCT ATGTGGCGCG GTATTATCCC GTATTGACGC CGGGCAAGAG	5040
CAAECTGGTC GCCGCATACA CTATTCTCAG AATGACTTGG TTGAGTACTC ACCAGTCACA	5100
GAAAAGCATC TTACGGATGG CATGACAGTA AGAGAATTAT GCAGTGCTGC CATAACCATG	5160
AGTGATAACA CTGCGGCCAA CTTACTTCTG ACAACGATCG GAGGACCGAA GGAGCTAAC	5220
GCTTTTTGC ACAACATGGG GGATCATGTA ACTGCCCTG ATCGTTGGGA ACCGGAGCTG	5280
AATGAAGCCA TACCAAACGA CGAGCGTGAC ACCACGATGC CTGTAGCAAT GGCAACAAACG	5340
TTGCGCAAAC TATTAACTGG CGAACTACTT ACTCTAGCTT CCCGGCAACA ATTAATAGAC	5400
TGGATGGAGG' CGGATAAAAGT TGCAGGACCA CTTCTGCGCT CGGCCCTCC GGCTGGCTGG	5460
TTTATTGCTG ATAAATCTGG AGCCGGTGAG CGTGGGTCTC GCGGTATCAT TGCAGCACTG	5520
GGGCCAGATG GTAAGCCCTC CCGTATCGTA GTTATCTACA CGACGGGGAG TCAGGCAACT	5580
ATGGATGAAC GAAATAGACA GATCGCTGAG ATAGGTGCCT CACTGATTAA GCATTGGTAA	5640
CTGTCAGACC AAGTTTACTC ATATATACTT TAGATTGATT TAAAACCTCA TTTTAATT	5700
AAAAGGATCT AGGTGAAGAT CCTTTTGAT AATCTCATGA CCAAAATCCC TTAACGTGAG	5760
TTTCGTTCC ACTGAGCGTC AGACCCCGTA GAAAAGATCA AAGGATCTC TTGAGATCCT	5820
TTTTCTGC GCGTAATCTG CTGCTGCAA ACAAAAAAAC CACCGCTACC AGCGGTGGTT	5880
TGTTGCCGG ATCAAGAGCT ACCAACTCTT TTTCCGAAGG TAACTGGCTT CAGCAGAGCG	5940
CAGATACCAA ATACTGTCCT TCTAGTGTAG CCGTAGTTAG GCCACCCTT CAAGAACTCT	6000
GTAGCACCGC CTACATACCT CGCTCTGCTA ATCCTGTTAC CAGTGGCTGC TGCCAGTGGC	6060
GATAAGTCGT GTCTTACCGG GTTGGACTCA AGACGATAGT TACCGGATAA GGCGCAGCGG	6120

FIG. 6E

TCGGGCTGAA CGGGGGGTTTC GTGCACACAG CCCAGCTTGG AGCGAACGAC CTACACCGAA	6180
CTGAGATACC TACAGCGTGA GCATTGAGAA AGCGCCACGC TTCCCGAAGG GAGAAAGGCG	6240
GACAGGTATC CGGTAAGCGG CAGGGTCGGA ACAGGGAGAGC GCACGAGGG A GCTTCCAGGG	6300
GGAAACGCCT GGTATCTTA TAGTCCTGTC GGGTTTCGCC ACCTCTGACT TGAGCGTCGA	6360
TTTTGTGAT GCTCGTCAGG GGGGCGGAGC CTATGGAAAA ACGCCAGCAA CGCC	

FIG. 7A

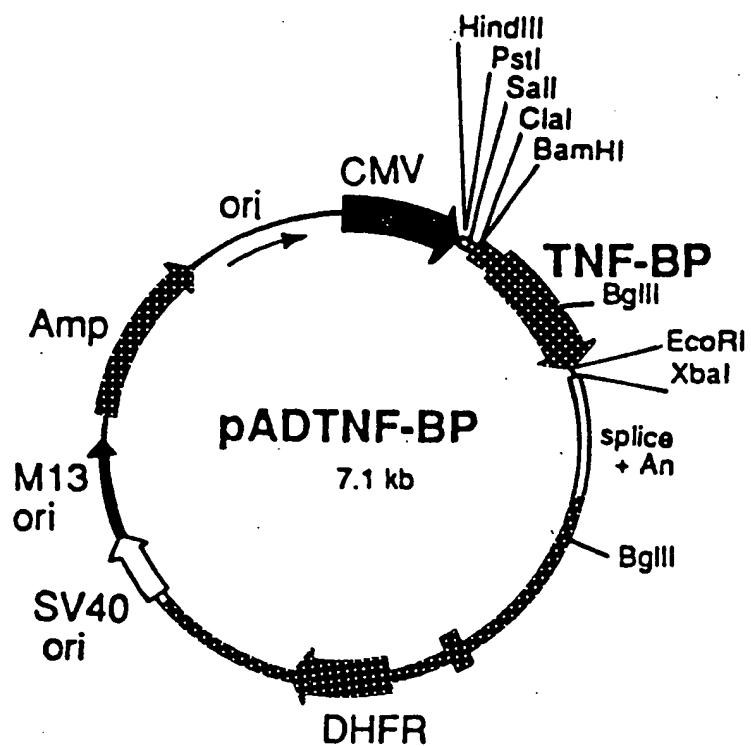


FIG. 7B

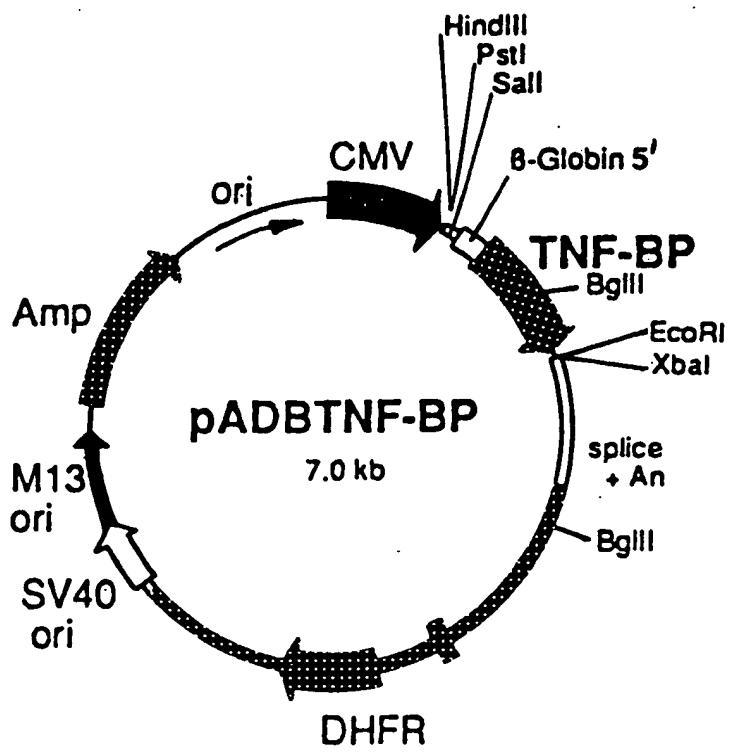


FIG. 7C

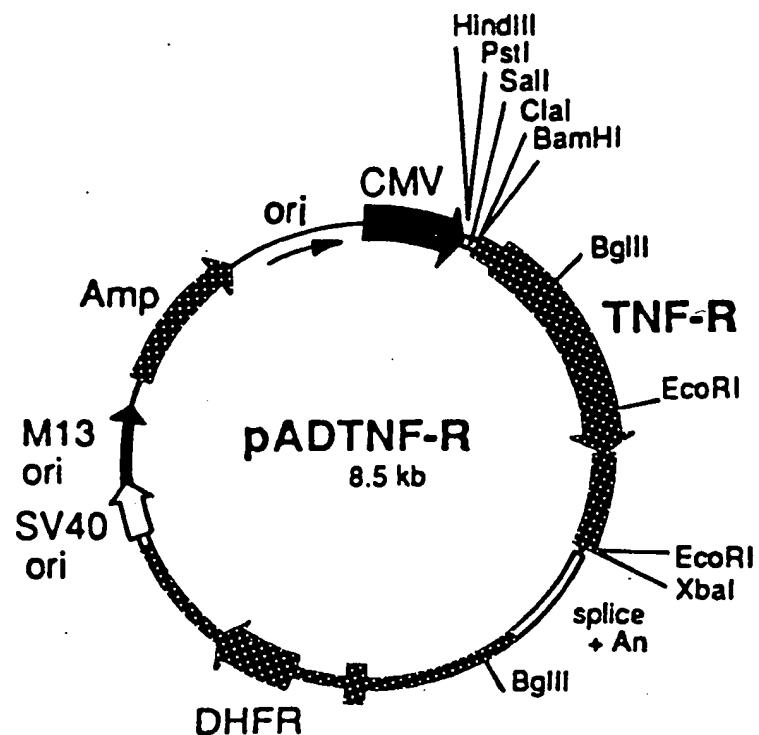


FIG. 7D

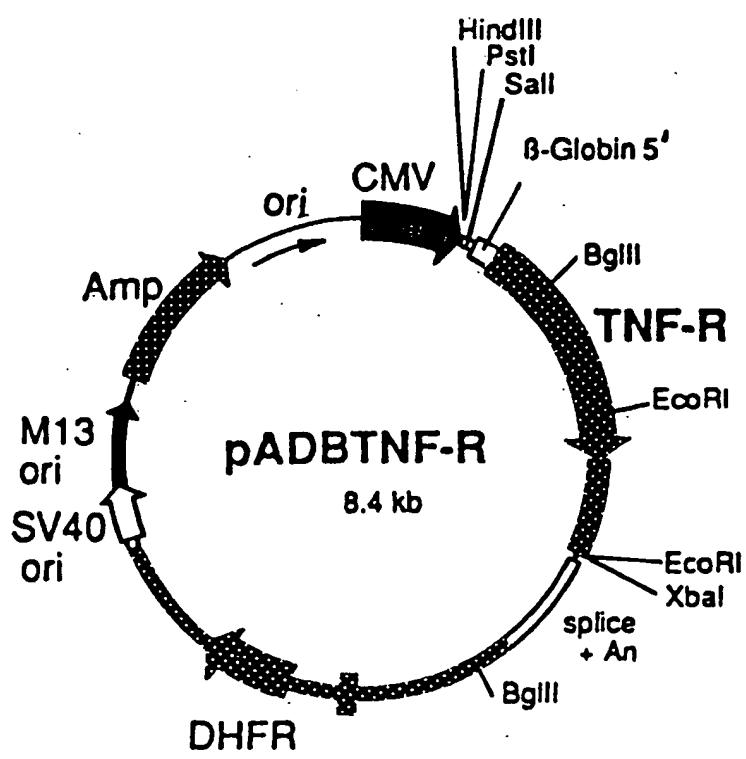


FIG. 8A

ratTNF-R

GAATTCCCTT TCTCCGAGTT TTCTGAACTC TGGCTCATGA TCGGGCTTAC TGGATACGAG 60
 AATCCTGGAG, GACCGTACCC TGATTTCAT CTACCTCTGA CTTTGAGCCT TTCTAACCG 120
 GGGCTCACGC TGCCAACACC CGGGCCACCT GGTCCGATCG TCTTACTTCA TTCACCAGCG 180
 TTGCCAATTG CTGCCCTGTC CCCAGCCCCA ATGGGGGAGT GAGAGAGGCC ACTGCCGGCC 240
 GGAC
 245/1 275/11
 ATG GGT CTC CCC ATC GTG CCT GGC CTG CTG CTG TCA CTG GTG CTC CTG GCT CTG CTG ATG
 Met Gly Leu Pro Ile Val Pro Gly Leu Leu Ser Leu Val Leu Leu Ala Leu Leu Met
 305/21 335/31
 GGG ATA CAC CCA TCA GGG GTC ACC GGA CTG GTT CCT TCT GGT GAC CGG GAG AAG AGG
 Gly Ile His Pro Ser Gly Val Thr Gly Leu Val Pro Ser Leu Gly Asp Arg Glu Lys Arg
 365/41 395/51
 GAT AAT TTG TGT CCC CAG GGA AAG TAT GCC CAT CCA AAG AAT AAT TCC ATC TGC TGC ACC
 Asp Asn Leu Cys Pro Gln Gly Lys Tyr Ala His Pro Lys Asn Asn Ser Ile Cys Cys Thr
 425/61 455/71
 AAG TGC CAC AAA GGA ACC TAC TTG GTG AGT GAC TGT CCA AGC CCA GGG CAG GAA ACA GTC
 Lys Cys His Lys Gly Thr Tyr Leu Val Ser Asp Cys Pro Ser Pro Gly Gln Glu Thr Val
 485/81 515/91
 TGC GAG CTC TCT CAT AAA GGC ACC TTT ACA GCT TCG CAG AAC CAC GTC AGA CAG TGT CTC
 Cys Glu Leu Ser His Lys Gly Thr Phe Thr Ala Ser Gln Asn His Val Arg Gln Cys Leu
 545/101 575/111
 AGT TGC AAG ACA TGT CGG AAA GAA ATG TTC CAG GTG GAG ATT TCT CCT TGC AAA GCT GAC
 Ser Cys Lys Thr Cys Arg Lys Glu Met Phe Gln Val Glu Ile Ser Pro Cys Lys Ala Asp
 605/121 635/131
 ATG GAC ACC GTG TGT GGC TGC AAG AAC CAA TTC CAG CGC TAC CTG AGT GAG ACG CAT
 Met Asp Thr Val Cys Gly Cys Lys Asn Gln Phe Gln Arg Tyr Leu Ser Glu Thr His
 665/141 695/151
 TTC CAG TGT GTG GAC TGC AGC CCC TGC TTC AAT GGC ACC GTG ACA ATC CCC TGT AAG GAG
 Phe Gln Cys Val Asp Cys Ser Pro Phe Asn Gly Thr Val Thr Ile Pro Cys Lys Glu
 725/161 755/171
 AAA CAG AAC ACC GTG TGT AAC TGC CAC GCA GGA TTC TTT CTA AGC GGA AAT GAG TGC ACC
 Lys Gln Asn Thr Val Cys Asn Cys His Ala Gly Phe Phe Leu Ser Gly Asn Glu Cys Thr
 785/181 815/191
 CCT TGC AGC CAC TGC AAG AAA AAT CAG GAA TGT ATG AAG CTG TGC CTA CCT CCA GTT GCA
 Pro Cys Ser His Cys Lys Lys Asn Gln Glu Cys Met Lys Leu Cys Leu Pro Pro Val Ala
 845/201 875/211
 AAT GTC ACA AAC CCC CAG GAC TCA GGT ACT GCC GTG CTG TTG CCT CTG GTT ATC TTC CTA
 Asn Val Thr Asn Pro Gln Asp Ser Gly Thr Ala Val Leu Leu Pro Leu Val Ile Phe Leu
 905/221 935/231
 GGT CTT TGC CTT TTA TTC TTT ATC TGC ATC AGT CTA CTG TGC CGA TAT CCC CAG TGG AGG
 Gly Leu Cys Leu Leu Phe Phe Ile Cys Ile Ser Leu Leu Cys Arg Tyr Pro Gln Trp Arg
 965/241 995/251
 CCC AGG GTC TAC TCC ATC ATT TGT AGG GAT TCA GCT CCT GTC AAA GAG GTG GAG GGT GAA
 Pro Arg Val Tyr Ser Ile Ile Cys Arg Asp Ser Ala Pro Val Lys Glu Val Glu Gly Glu
 1025/261 1055/271
 GGA ATT GTT ACT AAG CCC CTA ACT CCA GCC TCT ATC CCA GCC TTC AGC CCC AAC CCC GGC
 Gly Ile Val Thr Lys Pro Leu Thr Pro Ala Ser Ile Pro Ala Phe Ser Pro Asn Pro Gly
 1085/281 1115/291
 TTC AAC CCC ACT CTG GGC TTC AGC ACC CCA CGC TTC AGT CAT CCT GTC TCC AGT ACC
 Phe Asn Pro Thr Leu Gly Phe Ser Thr Thr Pro Arg Phe Ser His Pro Val Ser Ser Thr
 1145/301 1175/311
 CCC ATC AGC CCC GTC TTC GGT CCT AGT AAC TGG CAC AAC TTC GTG CCA CCT GTA AGA GAG
 Pro Ile Ser Pro Val Phe Gly Pro Ser Asn Trp His Asn Phe Val Pro Pro Val Arg Glu
 1205/321 1235/331
 GTG GTC CCA ACC CAG GGT GCT GAC CCT CTC CTC TAC GGA TCC CTC AAC CCT GTG CCA ATC
 Val Val Pro Thr Gln Gly Ala Asp Pro Leu Leu Tyr Gly Ser Leu Asn Pro Val Pro Ile

FIG. 8B

1265/341

CCC GCC CCT CGG AAA TGG GAA GAC GTC GTC GCG GCC CAG CCA CAA CGG CTT GAC ACT
Pro Ala Pro Val Arg Lys Trp Glu Asp Val Val Ala Ala Gln Pro Gln Arg Leu Asp Thr
1325/361

1355/371

GCA GAC CCT GCG ATG CTG TAT GCT GTG GTG GAT GGC GTG CCT CCG ACA CGC TGG AAG GAG
Ala Asp Pro Ala Met Leu Tyr Ala Val Val Asp Gly Val Pro Pro Thr Arg Trp Lys Glu

1385/381

1415/391

TTC ATG CGG CTC CTG GGG CTG AGC GAG CAC GAG ATC GAG CGG CTG GAG CTG CAG AAC GGG
Phe Met Arg Leu Leu Gly Leu Ser Glu His Glu Ile Glu Arg Leu Glu Leu Gln Asn Gly

1445/401

1475/411

CGT TGC CTC CGC GAG GCT CAT TAC AGC ATG CTG GAA GCC TGG CGG CGC ACA CCG CGA
Arg Cys Leu Arg Glu Ala His Tyr Ser Met Leu Glu Ala Trp Arg Arg Arg Thr Pro Arg

1505/421

1535/431

CAC GAG GCC ACG CTG GAC GTA GTG GGC CGC GTG CTT TGC GAC ATG AAC CTG CGT GGC TGC
His Glu Ala Thr Leu Asp Val Val Gly Arg Val Leu Cys Asp Met Asn Leu Arg Gly Cys

1565/441

1595/451

CTG GAG AAC ATC CGC GAG ACT CTA GAA AGC CCT GCC CAC TCG TCC ACG ACC CAC CTC CCG
Leu Glu Asn Ile Arg Glu Thr Leu Glu Ser Pro Ala His Ser Ser Thr Thr His Leu Pro

1625/461

CGA TAA

Arg Stop

GGCCACACCC	CCACCTCAGG	AACGGGACTC	GAAGGACCAT	CCTGCTAGAT	1680	
GCCCTGCTTC	CCTGTGAACC	TCCTCTTTGG	TCCTCTAGGG	GGCAGGCTCG	ATCTGGCAGG	1740
CTCGATCTGG	CAGCCACTTC	CTTGGTGCTA	CCGACTTGGT	GTACATAGCT	TTTCCCAGCT	1800
GCCGAGGACA	GCCTGTGCCA	GCCACTTGTG	CATGGCAGGG	AAGTGTGCCA	TCTGCTCCCA	1860
GACAGCTGAG	GGTGCCAAA	GCCAGGAGAG	GTGATTGTGG	AGAAAAAGCA	CAATCTATCT	1920
GATACCCACT	TGGGATGCAA	GGACCCAAAC	AAAGCTTCTC	AGGGCCTCCT	CAGTTGATTT	1980
CTGGGCCCTT	TTCACAGTAG	ATAAAACAGT	CTTGTATTG	ATTATATCAC	ACTAATGGAT	2040
GAACGGTTGA	ACTCCCTAAG	GTAGGGCAGA	GCACAGAACAA	GTGGGGTCTC	CAGCTGGAGC	2100
CCCCGACTCT	TGTAAATACA	CTAAAATCT	AAAAGTAAAAA	AAAAAAAAAA	AAAAAAAAAA	2160
AAAAAAGGAA TTC						

FIG. 9A

huTNF-R

GAATTCTCTG, GACTGAGGCT CCAGTCTGG CCTTTGGGGT TCAAGATCAC TGGGACCAGG 60
 CCGTGATCTC TATGCCGAG TCTCAACCCT CAACTGTCAC CCCAAGGCAC TTGGGACGTC 120
 CTGGACAGAC CGAGTCCCAG GAAGCCCCAG CACTGCCGCT GCCACACTGC CCTGAGCCCA 180
 AATGGGGGAG TGAGAGGCCA TAGCTGTCTG GC

213/1 243/11
 ATG GGC CTC TCC ACC GTG CCT GAC CTG CTG CTG CCA CTG GTG CTC CTG GAG CTG TTG GTG
 Met Gly Leu Ser Thr Val Pro Asp Leu Leu Leu Pro Leu Val Leu Leu Glu Leu Leu Val
 273/21 303/31
 GGA ATA TAC CCC TCA GGG GTT ATT GGA CTG GTC CCT CAC CTA GGG GAC AGG GAG AAG AGA
 Gly Ile Tyr Pro Ser Gly Val Ile Gly Leu Val Pro His Leu Gly Asp Arg Glu Lys Arg
 333/41 363/51
 GAT AGT GTG TGT CCC CAA GGA AAA TAT ATC CAC CCT CAA AAT AAT TCG ATT TGC TGT ACC
 Asp Ser Val Cys Pro Gln Gly Lys Tyr Ile His Pro Gln Asn Asn Ser Ile Cys Cys Thr
 393/61 423/71
 AAG TGC CAC AAA GGA ACC TAC TTG TAC AAT GAC TGT CCA GGC CCG GGG CAG GAT ACG GAC
 Lys Cys His Lys Gly Thr Tyr Leu Tyr Asn Asp Cys Pro Gly Pro Gly Gln Asp Thr Asp
 453/81 483/91
 TGC AGG GAG TGT GAG AGC GGC TCC TTC ACC GCT TCA GAA AAC CAC CTC AGA CAC TGC CTC
 Cys Arg Glu Cys Glu Ser Gly Ser Phe Thr Ala Ser Glu Asn His Leu Arg His Cys Leu
 513/101 543/111
 AGC TGC TCC AAA TGC CGA AAG GAA ATG GGT CAG GTG GAG ATC TCT TCT TGC ACA GTG GAC
 Ser Cys Ser Lys Cys Arg Lys Glu Met Gly Gln Val Glu Ile Ser Ser Cys Thr Val Asp
 573/121 603/131
 CGG GAC ACC GTG TGT GGC TGC AGG AAG AAC CAG TAC CGG CAT TAT TGG AGT GAA AAC CTT
 Arg Asp Thr Val Cys Gly Cys Arg Lys Asn Gln Tyr Arg His Tyr Trp Ser Glu Asn Leu
 633/141 663/151
 TTC CAG TGC TTC AAT TGC AGC CTC TGC CTC AAT GGG ACC GTG CAC CTC TCC TGC CAG GAG
 Phe Gln Cys Phe Asn Cys Ser Leu Cys Leu Asn Gly Thr Val His Leu Ser Cys Gln Glu
 693/161 723/171
 AAA CAG AAC ACC GTG TGC ACC TGC CAT GCA GGT TTC TTT CTA AGA GAA AAC GAG TGT GTC
 Lys Gln Asn Thr Val Cys Thr Cys His Ala Gly Phe Phe Leu Arg Glu Asn Glu Cys Val
 753/181 783/191
 TCC TGT AGT AAC TGT AAG AAA AGC CTG GAG TGC ACG AAG TTG TGC CTA CCC CAG ATT GAG
 Ser Cys Ser Asn Cys Lys Ser Leu Glu Cys Thr Lys Leu Cys Leu Pro Gln Ile Glu
 813/201 843/211
 AAT GTT AAG GGC ACT GAG GAC TCA GGC ACC ACA GTG CTG TTG CCC CTG GTC ATT TTC TTT
 Asn Val Lys Gly Thr Glu Asp Ser Gly Thr Thr Val Leu Leu Pro Leu Val Ile Phe Phe
 873/221 903/231
 GGT CTT TGC CTT TTA TCC CTC CTC TTC ATT GGT TTA ATG TAT CGC TAC CAA CGG TGG AAG
 Gly Leu Cys Leu Leu Ser Leu Phe Ile Gly Leu Met Tyr Arg Tyr Gln Arg Trp Lys
 933/241 963/251
 TCC AAG CTC TAC TCC ATT GTT TGT GGG AAA TCG ACA CCT GAA AAA GAG GGG GAG CTT GAA
 Ser Lys Leu Tyr Ser Ile Val Cys Gly Lys Ser Thr Pro Glu Lys Glu Gly Glu Leu Glu
 993/261 1023/271
 GGA ACT ACT AAG CCC CTG GCC CCA AAC CCA AGC TTC AGT CCC ACT CCA GGC TTC ACC
 Gly Thr Thr Lys Pro Leu Ala Pro Asn Pro Ser Phe Ser Pro Thr Pro Gly Phe Thr
 1053/281 1083/291
 CCC ACC CTG GGC TTC AGT CCC GTG CCC AGT TCC ACC TTC ACC TCC AGC TCC ACC TAT ACC
 Pro Thr Leu Gly Phe Ser Pro Val Pro Ser Ser Thr Phe Thr Ser Ser Thr Tyr Thr
 1113/301 1143/311
 CCC GGT GAC TGT CCC AAC TTT GCG GCT CCC CGC AGA GAG GTG GCA CCA CCC TAT CAG GGG
 Pro Gly Asp Cys Pro Asn Phe Ala Ala Pro Arg Arg Glu Val Ala Pro Pro Tyr Gln Gly
 1173/321 1203/331
 GCT GAC CCC ATC CTT GCG ACA GCC CTC GCC TCC GAC CCC ATC CCC AAC CCC CTT CAG AAG
 Ala Asp Pro Ile Leu Ala Thr Ala Leu Ala Ser Asp Pro Ile Pro Asn Pro Leu Gln Lys

FIG. 9B

1233/341	1263/351
TGG GAG GAC AGC GCC CAC AAG CCA CAG AGC CTA GAC ACT GAT GAC CCC GCG ACG CTG TAC	
Trp Glu Asp Ser Ala His Lys Pro Gln Ser Leu Asp Thr Asp Asp Pro Ala Thr Leu Tyr	
1293/361	1323/371
GCC GTG GTG GAG AAC GTG CCC CCG TTG CGC TGG AAG GAA TTC GTG CGG CGC CTA GGG CTG	
Ala Val Val Glu Asn Val Pro Pro Leu Arg Trp Lys Glu Phe Val Arg Arg Leu Gly Leu	
1353/381	1383/391
AGC GAC CAC GAG ATC GAT CGG CTG GAG CTG CAG AAC GGG CGC TGC CTG CGC GAG GCG CAA	
Ser Asp His Glu Ile Asp Arg Leu Glu Leu Gln Asn Gly Arg Cys Leu Arg Glu Ala Gln	
1413/401	1443/411
TAC AGC ATG CTG GCG ACC TGG AGG CGG CGC ACG CCG CGG CGC GAG GCC ACG CTG GAG CTG	
Tyr Ser Met Leu Ala Thr Trp Arg Arg Arg Thr Pro Arg Arg Glu Ala Thr Leu Glu Leu	
1473/421	1503/431
CTG GGA CGC GTG CTC CGC GAC ATG GAC CTG CTG GGC TGC CTG GAG GAC ATC GAG GAG GCG	
Leu Gly Arg Val Leu Arg Asp Met Asp Leu Leu Gly Cys Leu Glu Asp Ile Glu Glu Ala	
1533/441	1563/451
CTT TGC GGC CCC GCC CTC CCG CCC GCG CCC AGT CTT CTC AGA TGA	1580
Leu Cys Gly Pro Ala Ala Leu Pro Pro Ala Pro Ser Leu Leu Arg Stop	
GGCTGCGCCC CTGCGGGCAG CTCTAAGGAC CGTCCTGCGA 1620	
GATCGCCCTTC CAACCCCCACT TTTTCTGGA AAGGAGGGGT CCTGCAGGGG CAAGCAGGAG 1680	
CTAGCAGCCG CCTACTTGGT GCTAACCCCT CGATGTACAT AGCTTTCTC AGCTGCCTGC 1740	
GCGCCGCCGA CAGTCAGCGC TGTGCGCGC GAGAGAGGTG CGCCGTGGC TCAAGAGCCT 1800	
GAGTGGGTGG TTTGCGAGGA TGAGGGACGC TATGCCTCAT GCCCCTTTG GGTGTCCCTCA 1860	
CCAGCAAGGC TGCTCGGGGG CCCCTGGTTC GTCCCTGAGC CTTTTTCACA GTGCATAAGC 1920	
AGTTTTTTTT GTTTTTGTTT TGTTTTGTTT TGTTTTAA TCAATCATGT TACACTAATA 1980	
GAAACTTGGC ACTCCTGTGC CCTCTGCCTG GACAAGCACA TAGCAAGCTG AACTGTCCTA 2040	
AGGCAGGGGC GAGCACGGAA CAATGGGGCC TTCAGCTGGA GCTGTGGACT TTTGTACATA 2100	
CACTAAAATT CTGAAGTTAA AAAAAAAAAA AAAAGGAATT C 2141	

FIG.10

